S 200
POWER
AMPLIFIER

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AMPLIFIER

SERVICE MANUAL

NAD

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SERVICE SAFETY PRECAUTIONS

1. Replacing the Fuses

CAUTION: FOR CONTINUED PROTECTION AGAINST THE RISK OF FIRE REPLACE ONLY WITH SAME TYPE OF FUSE.

REFERENCE NO.	PART NUMBER	DESCRIPTION
F501*AH	5120-0023-0	Fuse 15A 250V Slow Blow UL/CSA
F502-F505*AH	5120-0040-0	Fuse 6.3A 250V Slow Blow UL/CSA
F701-F702*AH	5120-0031-0	Fuse 500mA 250V Slow Blow High Surge UL/CSA
F501*C	5120-0025-0	Fuse 6.3A 250V Time Lag HBC VDE/SEMKO
F502-F505*C	5120-0038-0	Fuse 6.3A 250V Fast Acting HBC VDE/SEMKO
F701-F702*C	5120-0030-0	Fuse 500mA 250V Time Lag LBC High Surge VDE/SEMKO

NOTE:
*AH : North American model only
*C : European model only

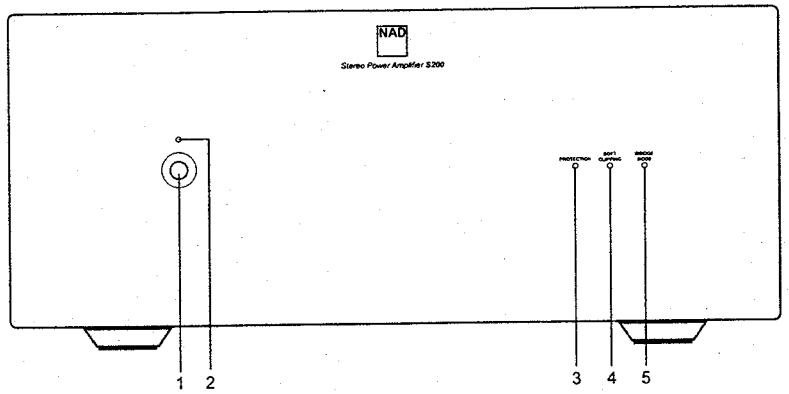
2. Safety-check out (North American model only)

Parts marked with the symbol ⚠ are critical with regard to the risk of fire and electric shock. Replace only with parts recommended by the manufacturer.

Before returning the product to the customer, make leakage current or resistance measurements to determine that exposed parts are acceptably insulated from the supply circuit.

FRONT PANEL / REAR PANEL VIEW

FRONT PANEL CONTROLS

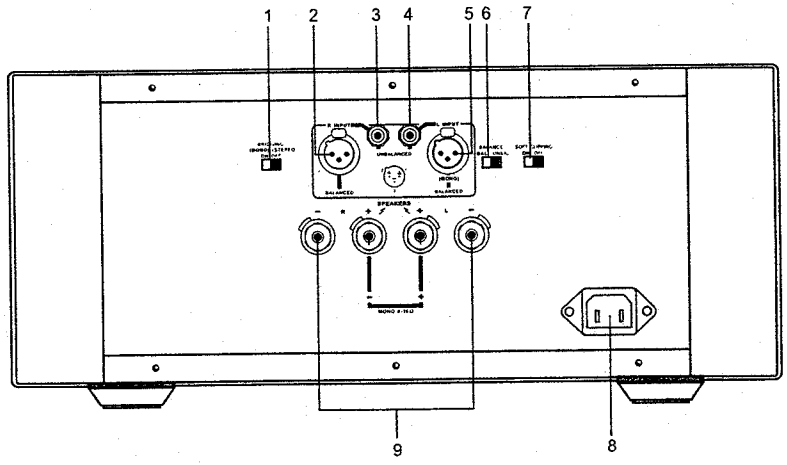


1. POWER SWITCH
2. POWER INDICATOR
3. PROTECTION INDICATOR
4. SOFT CLIPPING INDICATOR
5. BRIDGE MODE INDICATOR

The graphic symbol of a lightning flash with an arrow point within a triangle signifies that there is dangerous voltage within the unit and it posses a hazard to anyone removing the cover to gain access to the interior of the unit. **Only qualified service personnel should make such attempt.**

The graphic symbol of an exclamation point within an equilateral triangle warns a user of the device that it is necessary to refer to the instruction manual and its warnings for proper operation of the unit.

REAR PANEL CONNECTIONS



1. BRIDGING SWITCH
2. RIGHT BALANCED INPUT
3. RIGHT UNBALANCED INPUT
4. LEFT UNBALANCED INPUT
5. LEFT BALANCED INPUT
6. BALANCE SWITCH
7. SOFT CLIPPING SWITCH
8. AC INLET
9. SPEAKER OUTPUTS

SPECIFICATIONS

Measured in accordance with EIA Standard RS-490 (IHF-A-202) 1978.

		120V Version	230V Version
Unbridged (Stereo) Mode			
Continuous average power output (Minimum power per channel, 20Hz-20kHz, both channels driven, with no more than rated distortion)	8Ω 4Ω	225W (23.5dBW) 350W (25.4dBW)	200W (23dBW) 300W (24.8dBW)
Rated distortion (THD 20Hz-20kHz)		0.03%	0.03%
Clipping power (Maximum continuous power per channel)		240W (23.8dBW)	210W (23.2dBW)
IHF dynamic headroom at 8Ω		1dB	1dB
IHF dynamic power (Maximum short term power per channel)	8Ω 4Ω 2Ω	280W (24.5dBW) 470W (26.7dBW) 700W (28.4dBW)	250W (24dBW) 430W (26.3dBW) 660W (28.2dBW)
Signal-to-Noise ratio (A-weighted)	ref. 1W Ref. rated power	95dB 118.5dB	95dB 118dB
Frequency response	20Hz-20kHz -3dB	+/-0.3dB 2.5Hz / 80kHz	+/-0.3dB 2.5Hz / 80kHz
Slew Rate		>100V/μs	>100V/μs
Damping factor (ref. 8Ω, 50Hz)		>200	>200
Input impedance		47KΩ / 700pF	47KΩ / 700pF
Input sensitivity (for rated power into 8Ω)		1.4V	1.4V
Bridged Monophonic Mode			
Continuous average power output into 8Ω (Minimum power, 20Hz-20kHz, no more than rated THD)		780W (28.9dBW)	700W (28.5dBW)
IHF dynamic headroom at 8Ω		1dB	1dB
IHF dynamic power (Maximum short term power)	8Ω 4Ω	940W (29.7dBW) 1.3kW (31.1dBW)	880W (29.4dBW) 1.2kW (30.8dBW)
Physical specifications			
Dimensions (W x H x D)		450 x 180 x406 mm	
Net weight		27 kg / 59.4 lbs	

ALIGNMENT PROCEDURE

IDLE CURRENT ALIGNMENT

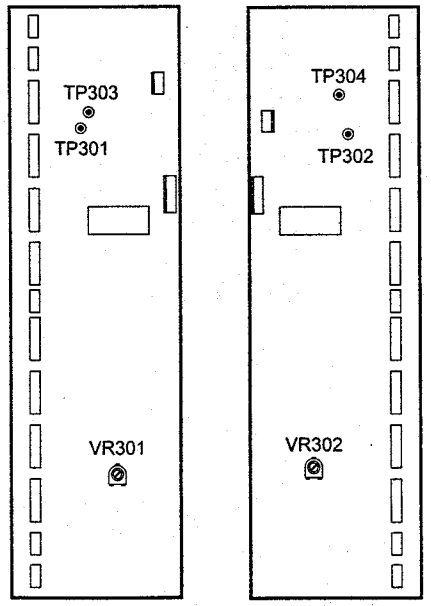
1. Ensure VR301 and VR302 are set to minimum (fully counter-clockwise) before switching on. No load should be connected and no input signal.
2. Connect a digital voltmeter switch to its 200mV range between TP301 and TP303.
3. Switch the amplifier on and, after one minute, adjust VR301 to obtain a reading of between 2mV and 2.5mV.
4. Transfer the DVM to TP302 and TP304 and adjust VR302 to obtain a reading of between 2mV and 2.5mV.
5. Leave power on for between 5 to 10 minutes to allow the idle currents to stabilize. Re-adjust VR301 and VR302 as necessary to obtain a reading of 8mV ±2mV on each channel.

COMMON MODE REJECTION ALIGNMENT

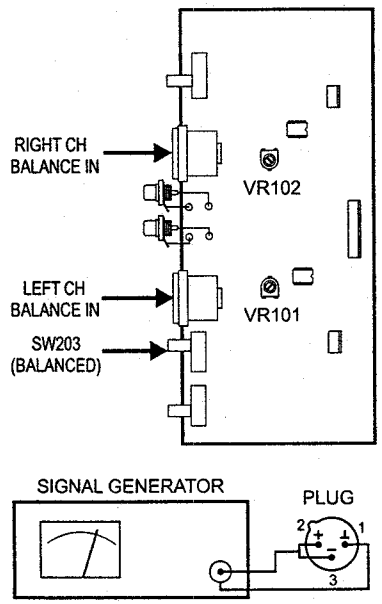
1. Switch SW203 to BALANCED mode.
2. Apply a signal of 1Vrms, 1kHz simultaneously to pins 2 and 3 of the left channel balanced input jack. Pins 2 and 3 must be shorted together at the plug and the signal referenced to the ground pin (1) for this test.
3. Monitor the output level at the left channel speaker terminals with an AC voltmeter (no load connected).
4. Adjust VR101 to produce the minimum reading on the AC voltmeter. This should be below 10mVrms.
5. Repeat the above procedure with the right channel to set VR102.

ADJUSTMENT POINTS

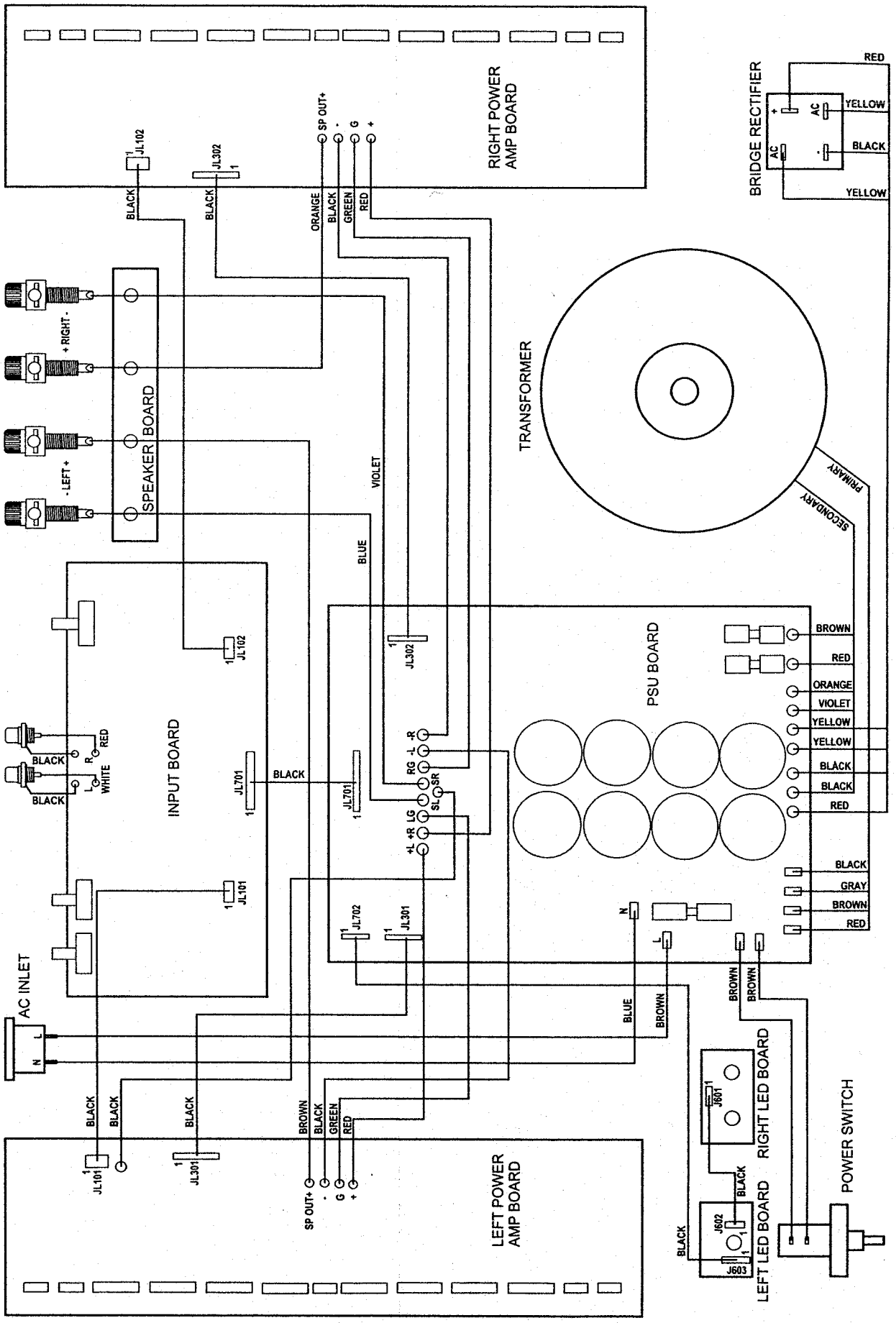
IDLE CURRENT ALIGNMENT



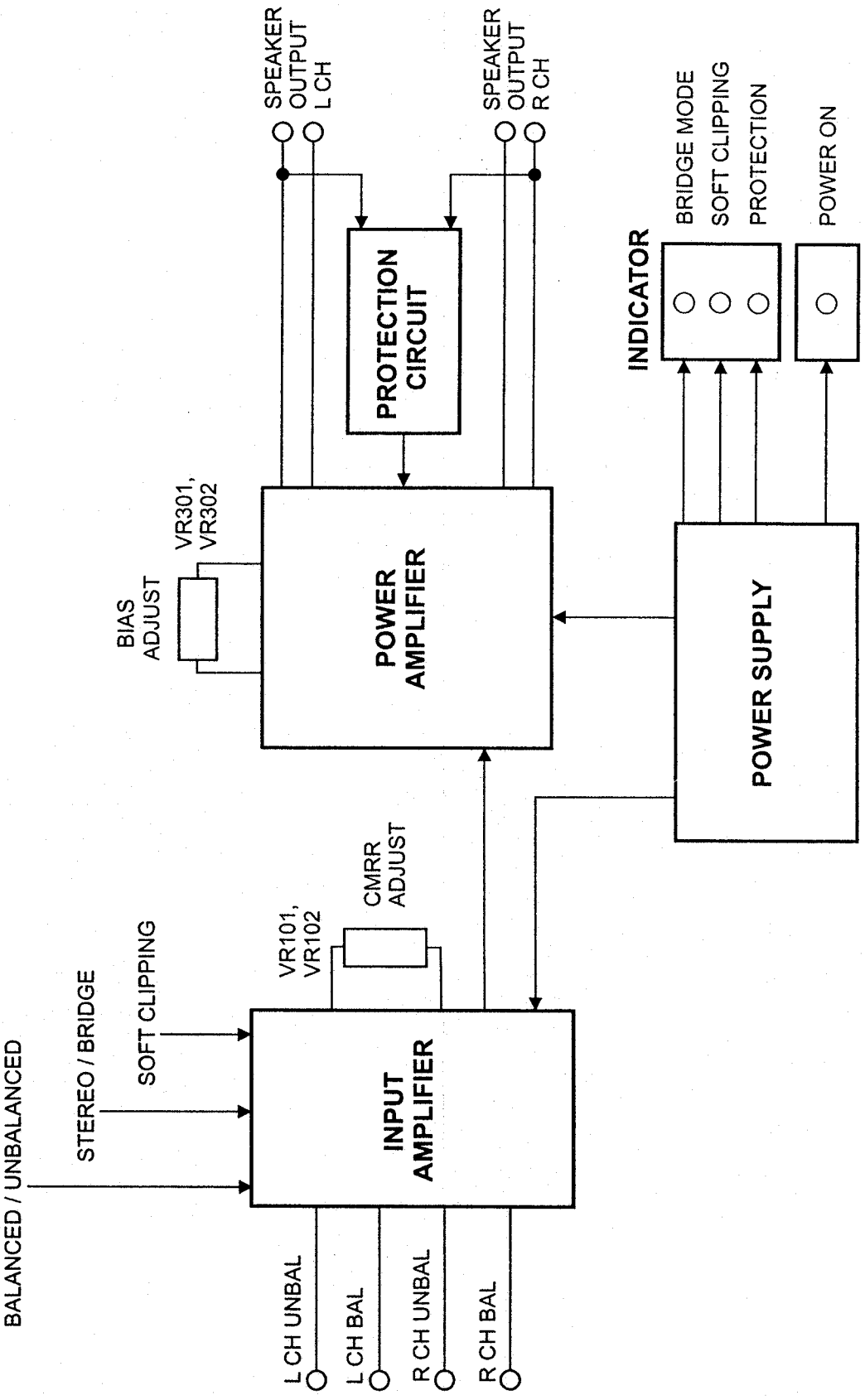
CMRR ALIGNMENT



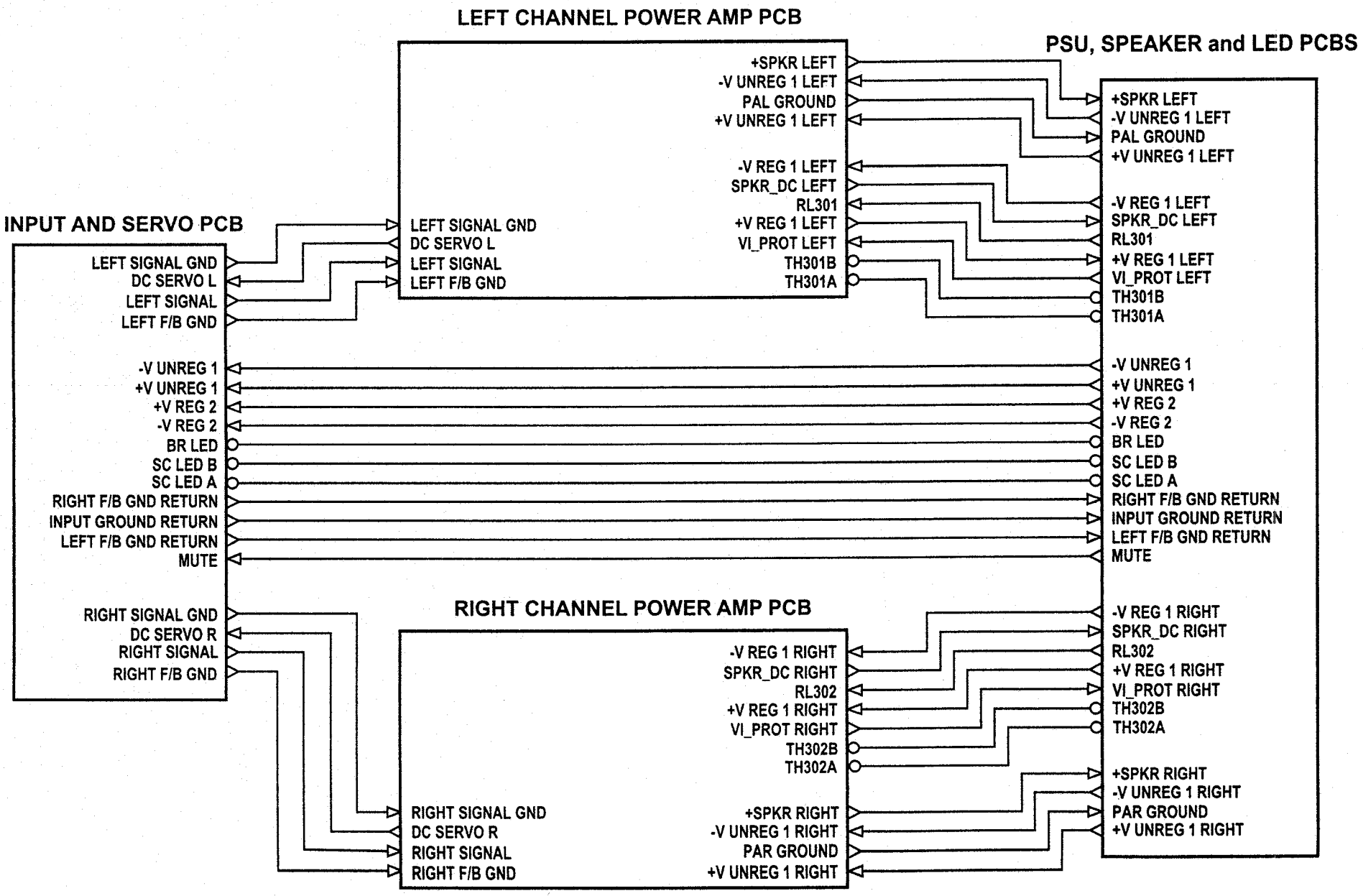
WIRING DIAGRAM



BLOCK DIAGRAM

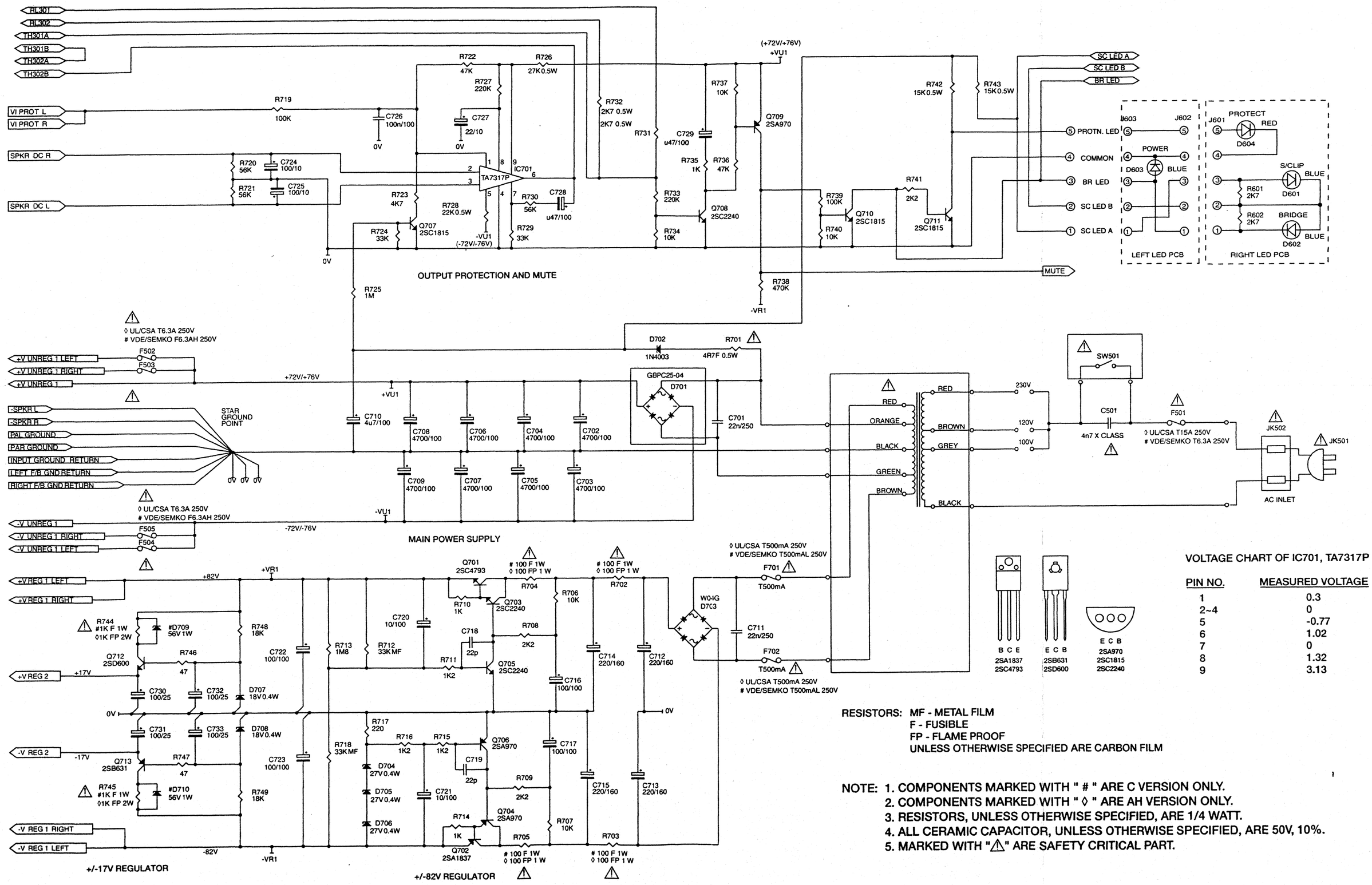


POWER AMPLIFIER SYSTEM



SCHEMATIC DIAGRAM

PSU



VOLTAGE CHART OF IC701, TA7317P

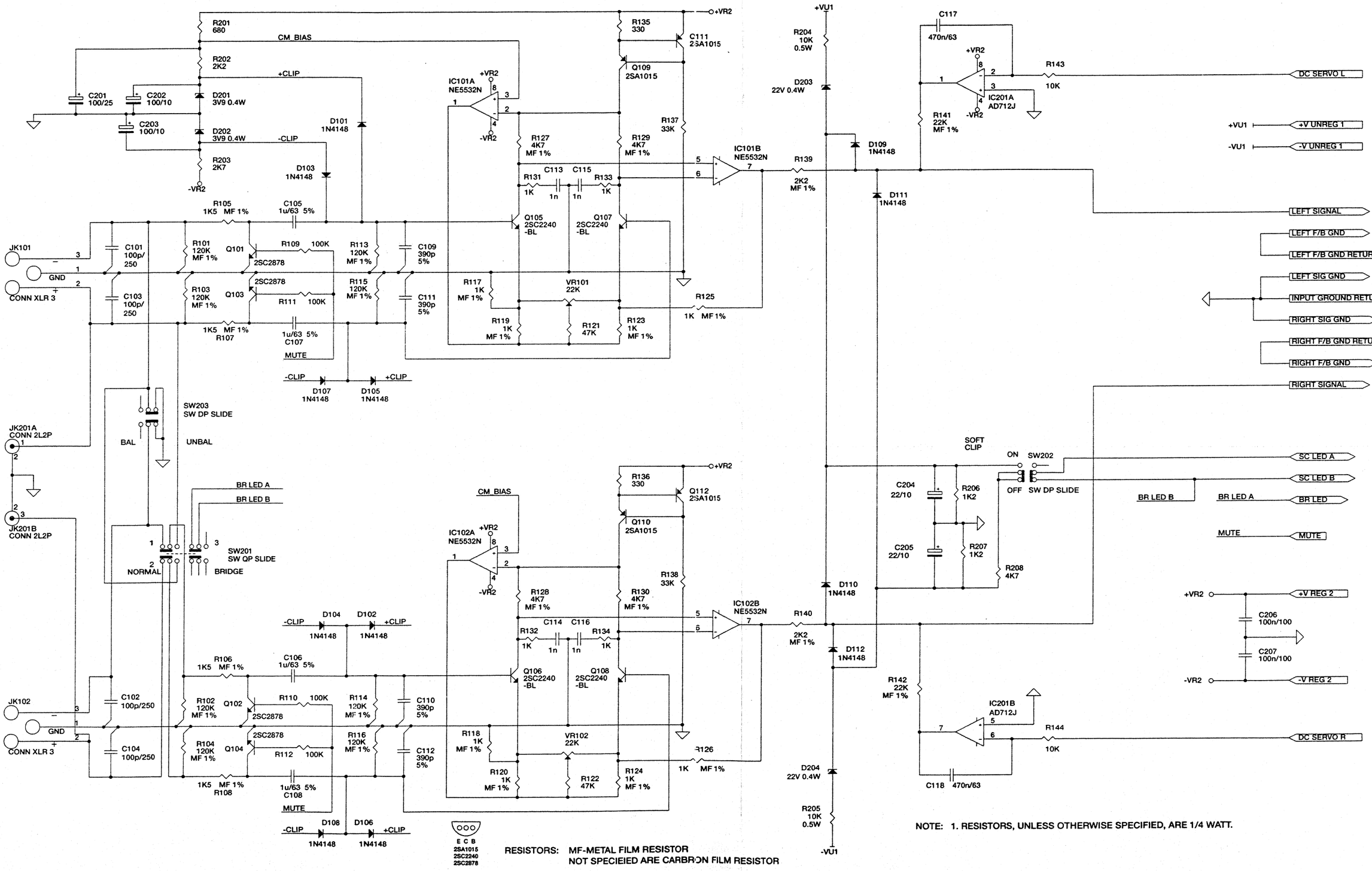
PIN NO.	MEASURED VOLTAGE
1	0.3
2~4	0
5	-0.77
6	1.02
7	0
8	1.32
9	3.13

RESISTORS: MF - METAL FILM
F - FUSIBLE
FP - FLAME PROOF
UNLESS OTHERWISE SPECIFIED ARE CARBON FILM

NOTE: 1. COMPONENTS MARKED WITH " # " ARE C VERSION ONLY.
2. COMPONENTS MARKED WITH " ◊ " ARE AH VERSION ONLY.
3. RESISTORS, UNLESS OTHERWISE SPECIFIED, ARE 1/4 WATT.
4. ALL CERAMIC CAPACITOR, UNLESS OTHERWISE SPECIFIED, ARE 50V, 10%.
5. MARKED WITH "⚠" ARE SAFETY CRITICAL PART.

SCHEMATIC DIAGRAM

INPUT AMPLIFIER

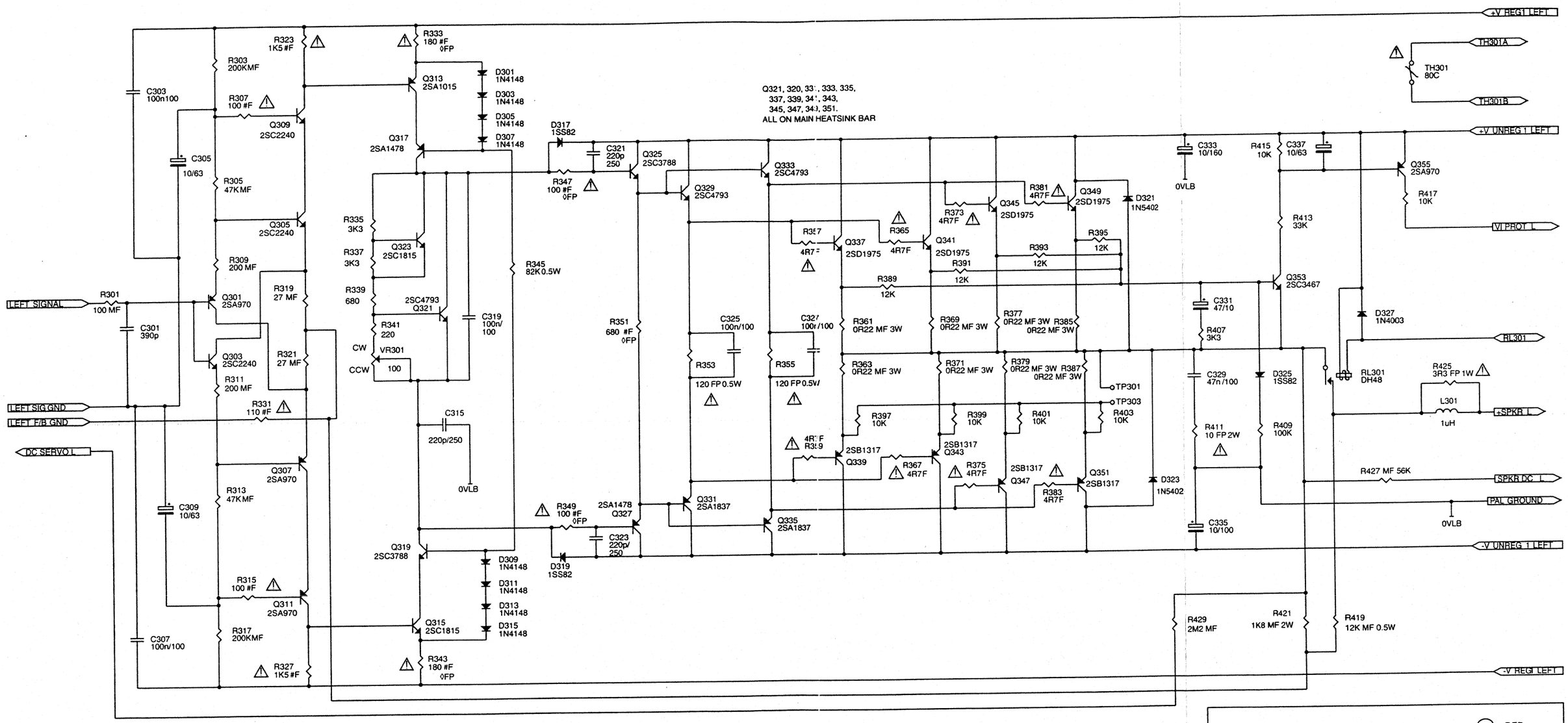


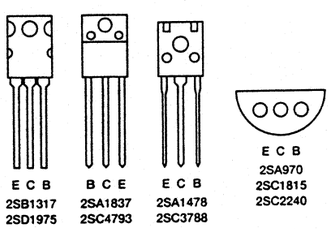
RESISTORS: MF-METAL FILM RESISTOR
NOT SPECIEIED ARE CARBRON FILM RESISTOR

NOTE: 1. RESISTORS, UNLESS OTHERWISE SPECIFIED, ARE 1/4 WATT.

SCHEMATIC DIAGRAM

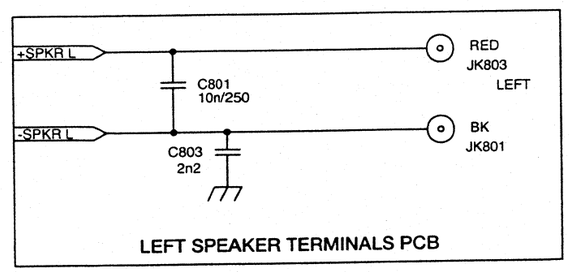
STEREO POWER AMPLIFIER LEFT CHANNEL





RESISTORS: MF - METAL FILM
F - FUSIBLE
FP - FLAME PROOF
NOT SPECIFIED ARE CARBON FILM

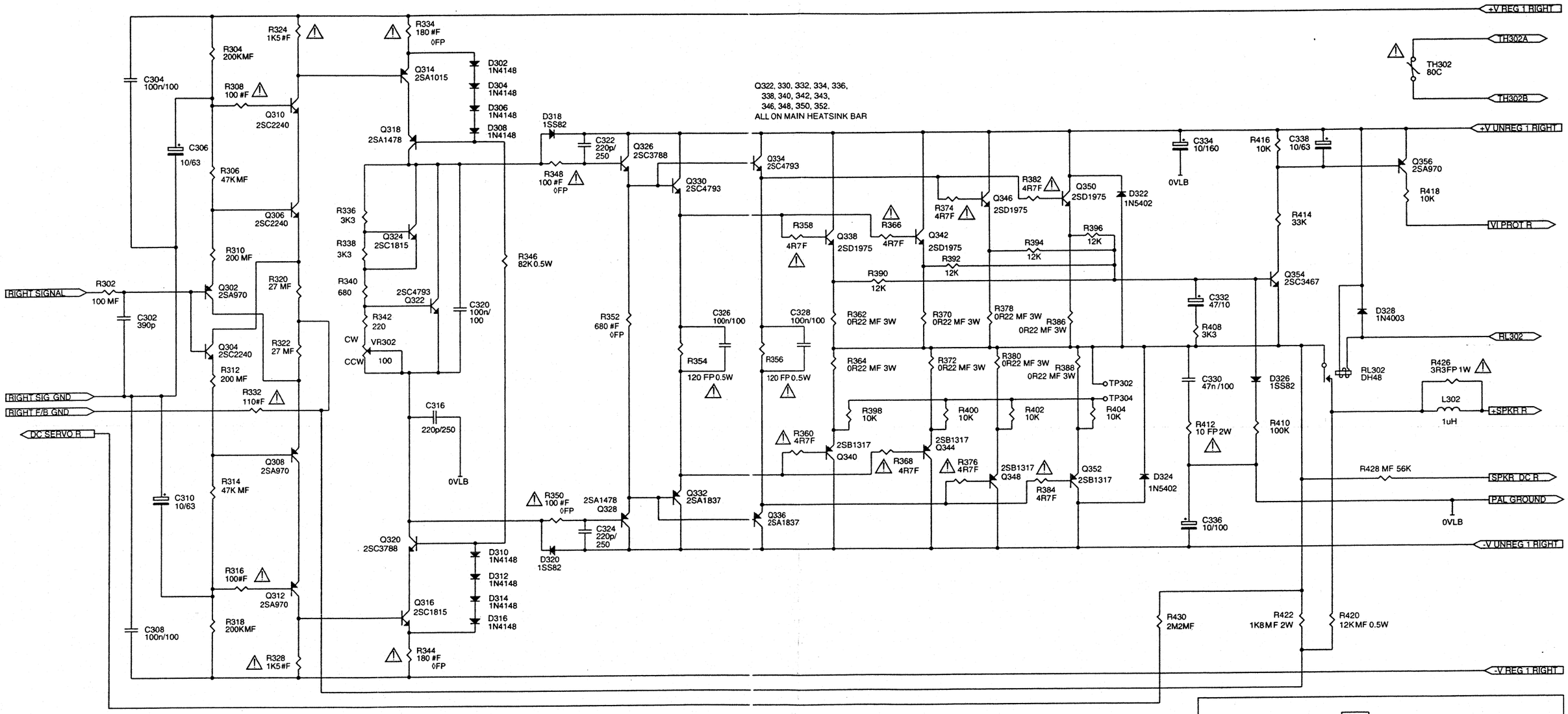
NOTE:
1. RESISTORS, UNLESS OTHERWISE SPECIFIED, ARE 1/4 WATT.
2. COMPONENTS MARKED WITH " # " ARE C VERSION ONLY.
3. COMPONENTS MARKED WITH " ◊ " ARE AH VERSION ONLY.
4. ALL CERAMIC CAPACITORS, UNLESS OTHERWISE SPECIFIED, ARE 50V, 10%.
5. MARKED WITH "⚠" ARE SAFETY CRITICAL PART.



LEFT SPEAKER TERMINALS PCB

SCHEMATIC DIAGRAM

STEREO POWER AMPLIFIER RIGHT CHANNEL



E C B
2SB1317
2SD1975

B C E
2SA1837
2SC4793

E C B
2SA1478
2SC3788

E C B
2SA970
2SC1815
2SC2240

RESISTORS: MF - METAL FILM
F - FUSIBLE
FP - FLAME PROOF
NOT SPECIFIED ARE CARBON FILM

NOTE:
1. RESISTORS, UNLESS OTHERWISE SPECIFIED, ARE 1/4 WATT.
2. COMPONENTS MARKED WITH " # " ARE C VERSION ONLY.
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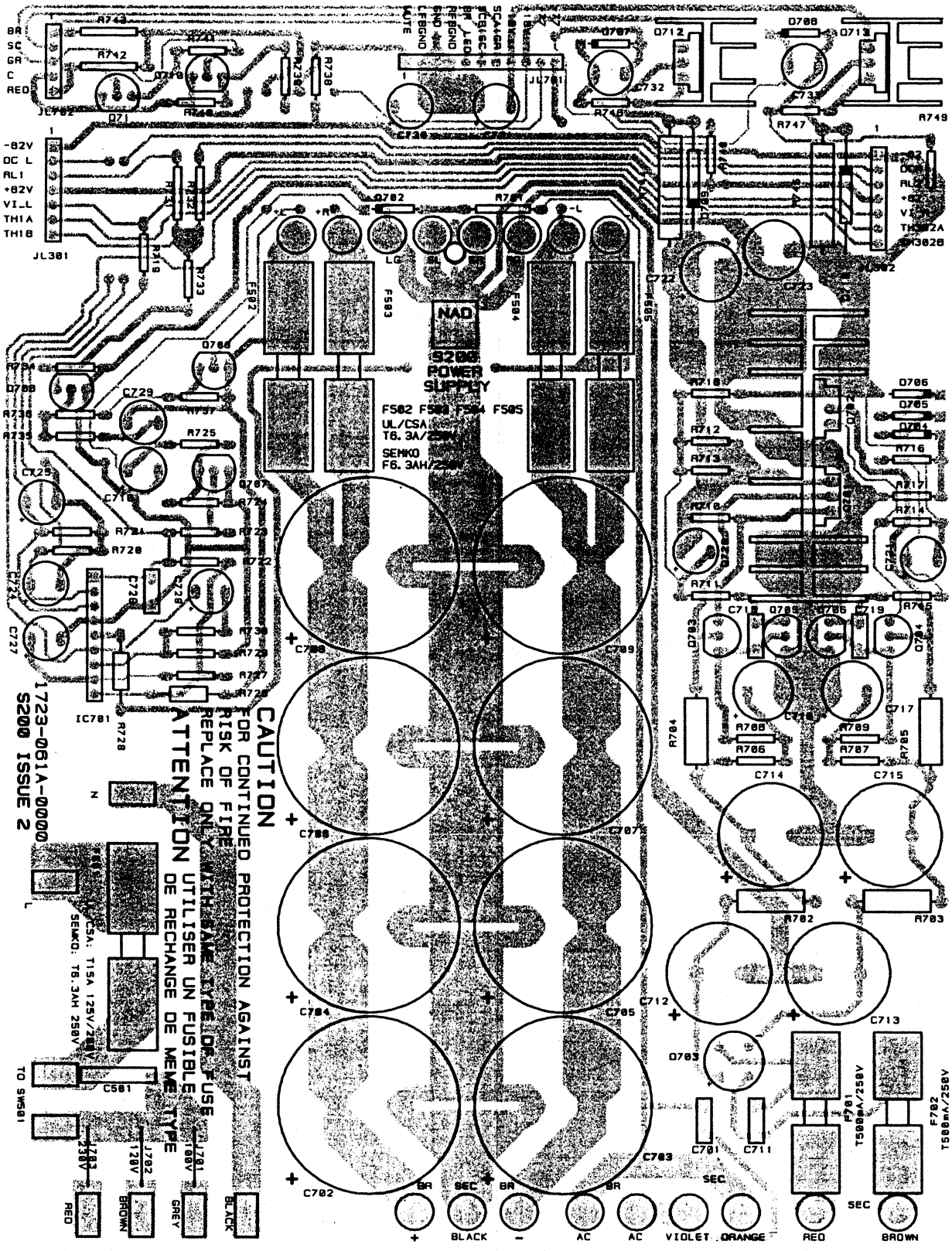
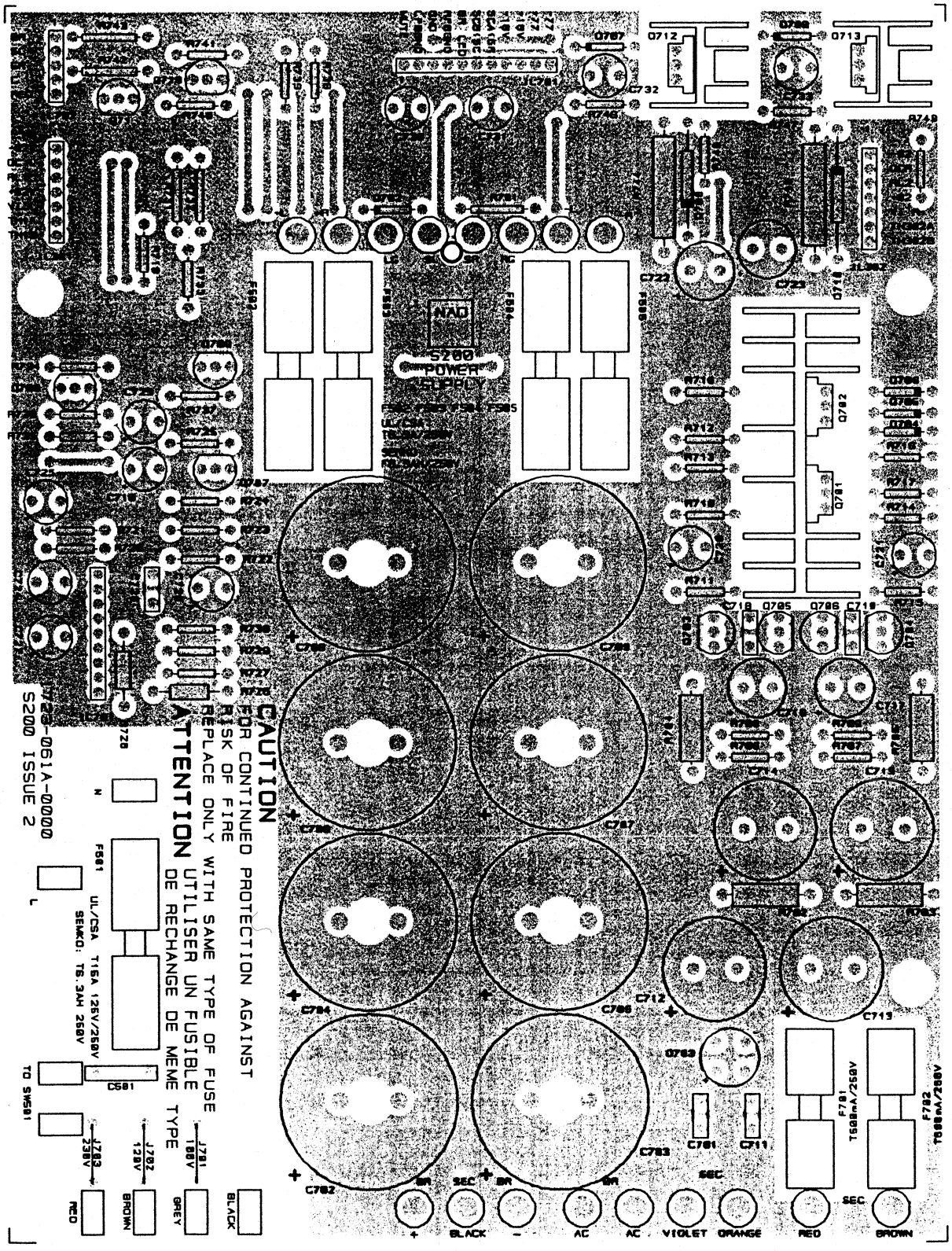
5. MARKED WITH "⚠" ARE SAFETY CRITICAL PART.

PCB LAYOUT

PSU - SOLDER SIDE

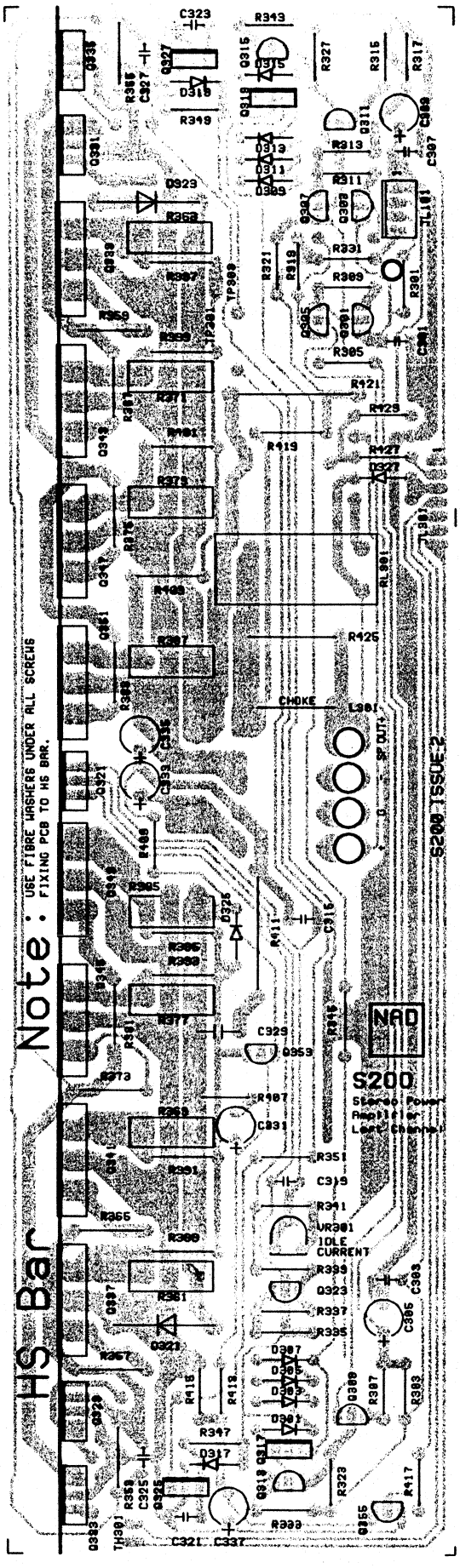


PSU - COMPONENT SIDE

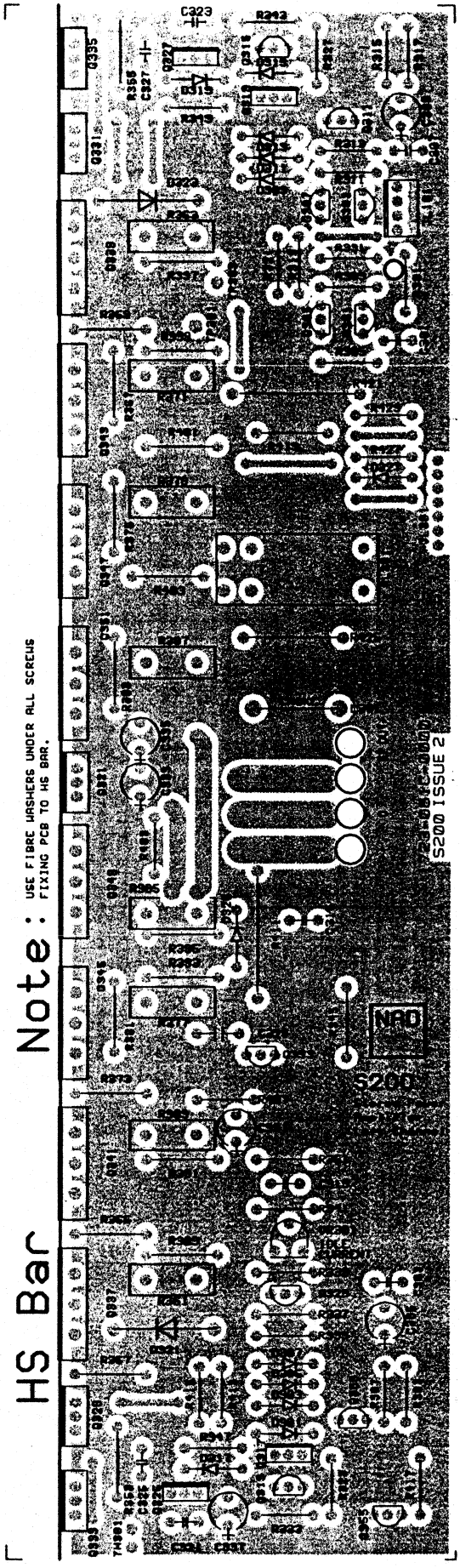


PCB LAYOUT

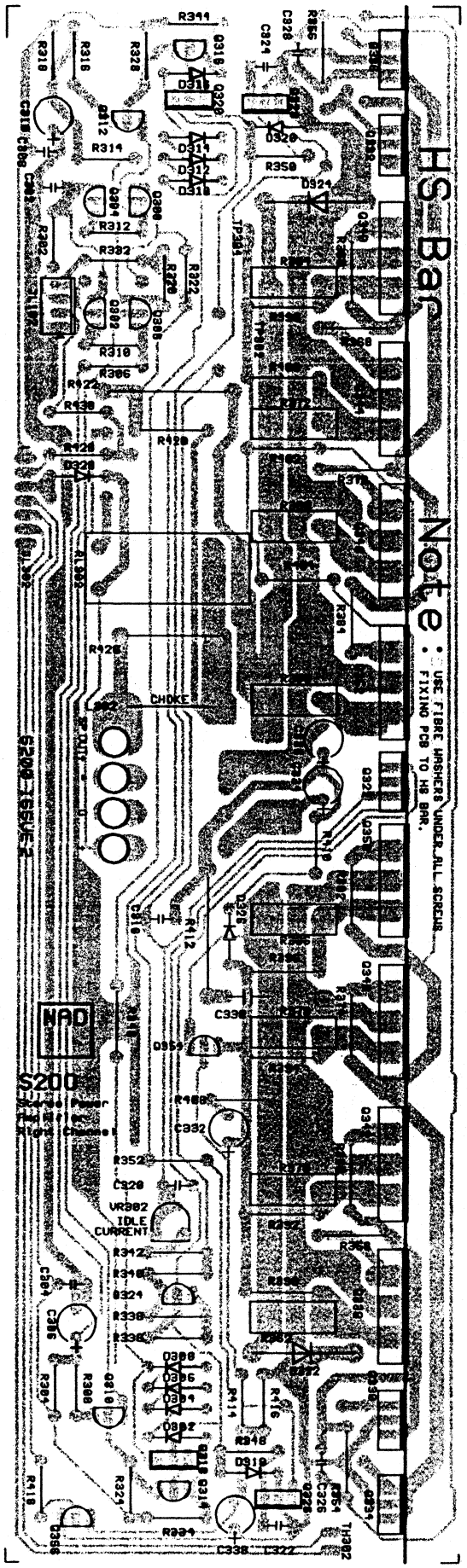
STEREO POWER AMP LEFT CHANNEL - SOLDER SIDE



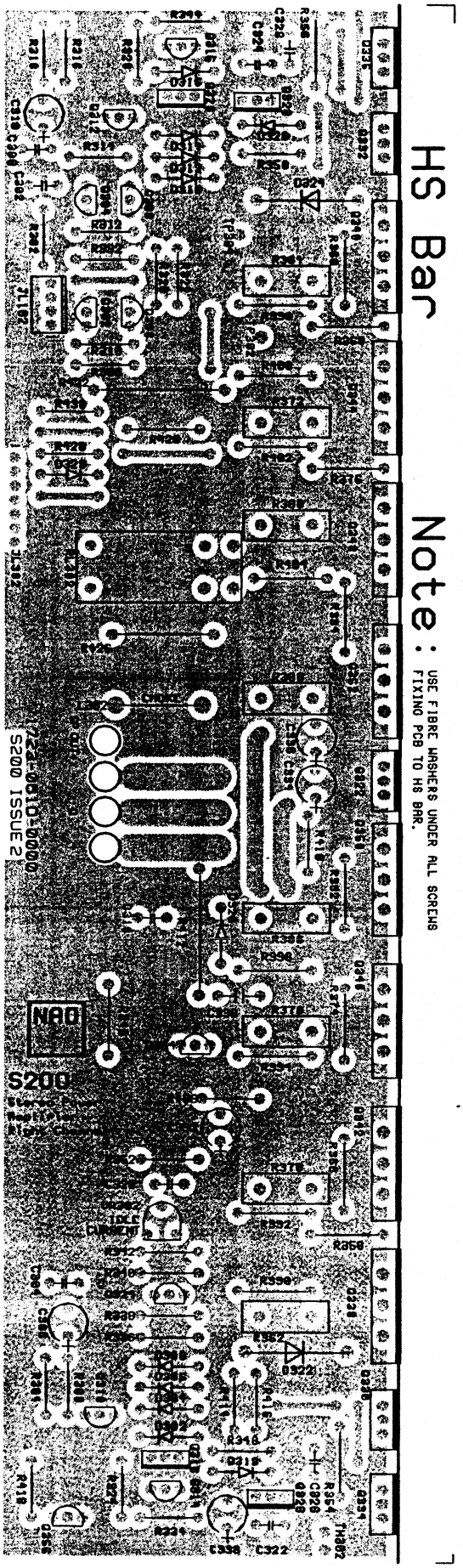
STEREO POWER AMP LEFT CHANNEL - COMPONENT SIDE



STEREO POWER AMP
RIGHT CHANNEL - SOLDER SIDE

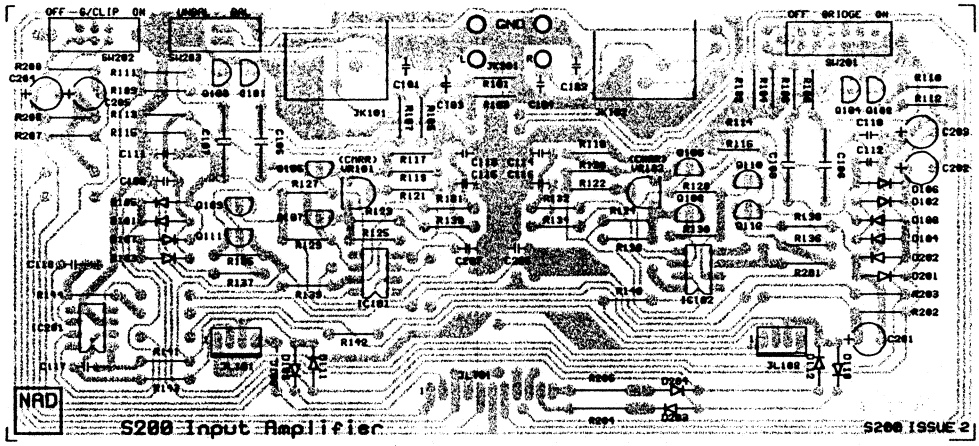


STEREO POWER AMP
RIGHT CHANNEL - COMPONENT SIDE

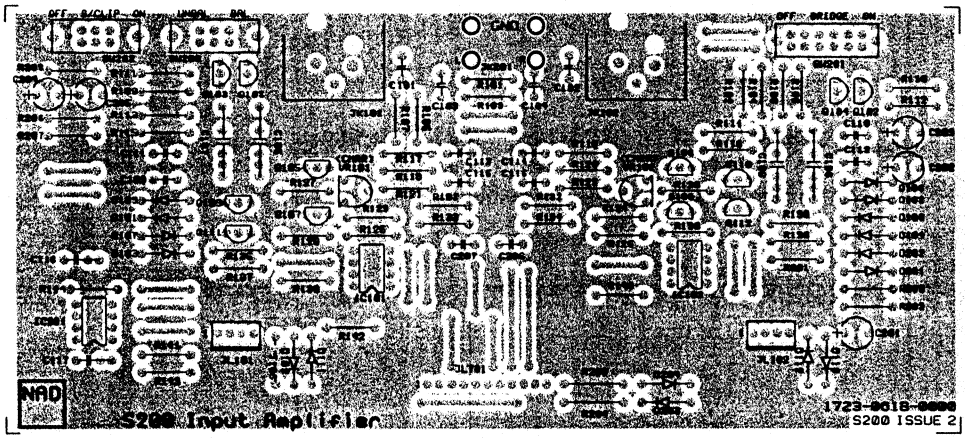


PCB LAYOUT

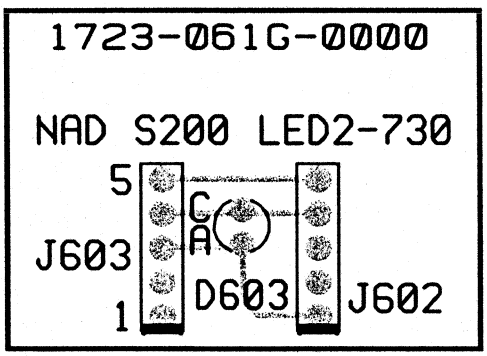
INPUT AMPLIFIER - SOLDER SIDE



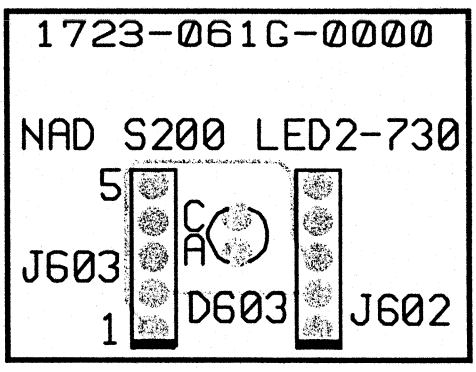
INPUT AMPLIFIER - COMPONENT SIDE



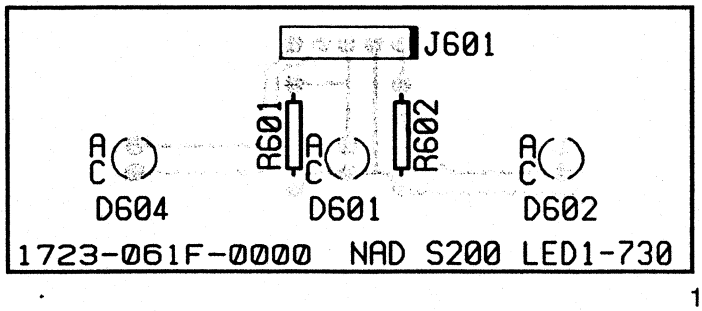
LEFT LED - SOLDER SIDE



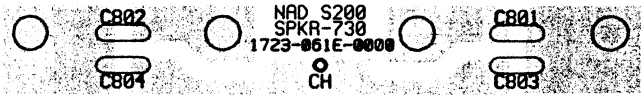
LEFT LED - COMPONENT SIDE



RIGHT LED



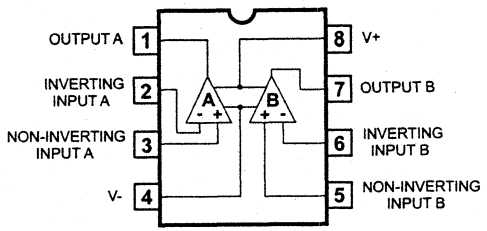
SPEAKER TERMINAL



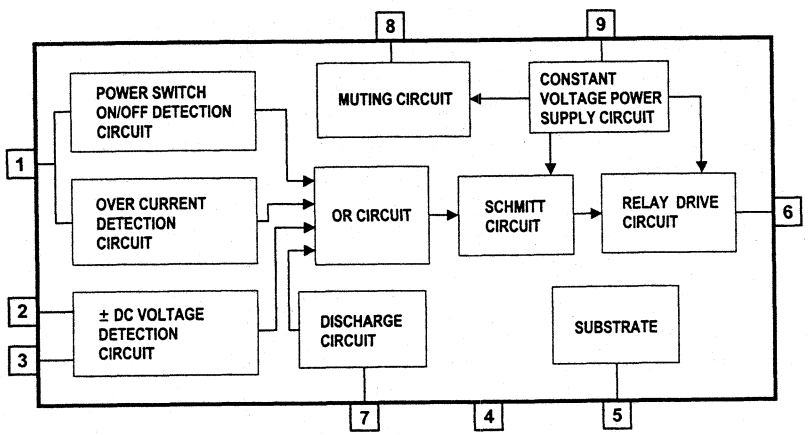
IC BLOCK DIAGRAM

IC101-IC102: OP-249
HIGH PERFORMANCE DUAL OP-AMP

IC201: AD712JN
HIGH PERFORMANCE DUAL OP-AMP



IC701: TA7317P
POWER AMP AND SPEAKER PROTECTION



ELECTRICAL PARTS LIST

Reference No	Part Number	Description
PCB BOARD		
MAIN BOARD ASSEMBLY		
*AH	PCB-N0830C-MAIN	MAIN BOARD ASSEMBLY
*C	PCB-N0831C-MAIN	MAIN BOARD ASSEMBLY
CAPACITORS		
C101-C104	158R-101J-5-IQ	CP 250V 100pF 5%
C105-C108	153I-105J-9-NSU	CM 63V 1uF 5%
C109-C112	15CG-391J-7-IJ	CC 50V 390pF 5% NPO
C113-C116	15CG-102J-7-IJ	CC 50V 1000pF 5% NPO
C117-C118	153I-474K-9-NSU	CM 63V 0.47uF 10%
C201	157E-107M-5-LUC	CE 25V 100uF 20%
C202-C203	157C-107M-5-IUC	CE 10V 100uF 20%
C204-C205	157C-226M-5-IUC	CE 10V 22uF 20%
C206-C207	153H-104M-9-NNU	CM 100V 0.1uF 20%
C301-C302	15CG-391J-7-IJ	CC 50V 390pF 5% NPO
C303-C304	153H-104M-9-NNU	CM 100V 0.1uF 20%
C305-C306	157I-106M-5-IUC	CE 63V 10uF 20%
C307-C308	153H-104M-9-NNU	CM 100V 0.1uF 20%
C309-C310	157H-106M-5-LUC	CE 100V 10uF 20%
C315-C316	158R-221J-5-IQ	CP 250V 220pF 5%
C319-C320	153H-104M-9-NNU	CM 100V 0.1uF 20%
C321-C324	158R-221J-5-IQ	CP 250V 220pF 5%
C325-C328	153H-104M-9-NNU	CM 100V 0.1uF 20%
C329-C330	153H-473K-9-NLU	CM 100V 0.047uF 10%
C331-C332	157C-476M-5-IUC	CE 10V 47uF 20%
C333-C336	157S-106M-5-SXC	CE 160V 10uF 20%
C337-C338	157I-106M-5-IUC	CE 63V 10uF 20%
C501 ⚠	8910-0049-0	CAP400V 4700P DE7150F472MVA1KC
C701	153R-223M-9-NNU	CM 250V 0.022uF 20%
C702-C709	8910-0095-0	CE 100V 4700uF 20%
C710	157H-475M-5-IUC	CE 100V 4.7uF 20%
C711	153R-223M-9-NNU	CM 250V 0.022uF 20%
C712-C715	8910-0056-0	CE 160V 220uF 20%
C716-C717	157H-107M-5-X9C	CE 100V 100uF 20%
C718-C719	15CG-220J-7-IJ	CTC 0/30 22pF 5%
C720-C721	157H-106M-5-LUC	CE 100V 10uF 20%
C722-C723	157H-107M-5-X9C	CE 100V 100uF 20%
C724-C724	157C-107M-5-IUC	CE 10V 100uF 20%
C726	153H-104M-9-NNU	CM 100V 0.1uF 20%
C727	157C-226M-5-IUC	CE 10V 22uF 20%
C728-C729	157H-474M-5-IUC	CE 100V 0.47uF 20%
C730-C733	157E-107M-5-LUC	CE 25V 100uF 20%
C801-C802	153R-103M-9-NLU	CM 250V 0.01uF 20%
C803-C804	15CG-222J-7-IJ	CC 50V 2200pF 5% NPO
DIODES		
D101-D112	4804-1480-C	DIODE 1N4148
D201-D202	4837-3B20-2	DZ 1/2W 3.8-4.0V
D203-D204	4840-0850-0	ZD 1/2W 21.52-22.63V
D301-D316	4804-1480-C	DIODE 1N4148
D317-D320	4840-0590-0	DIODE ISS143
D321-D324	4805-4020-L	DIODE IN5402
D325-D326	4840-0590-0	DIODE ISS143

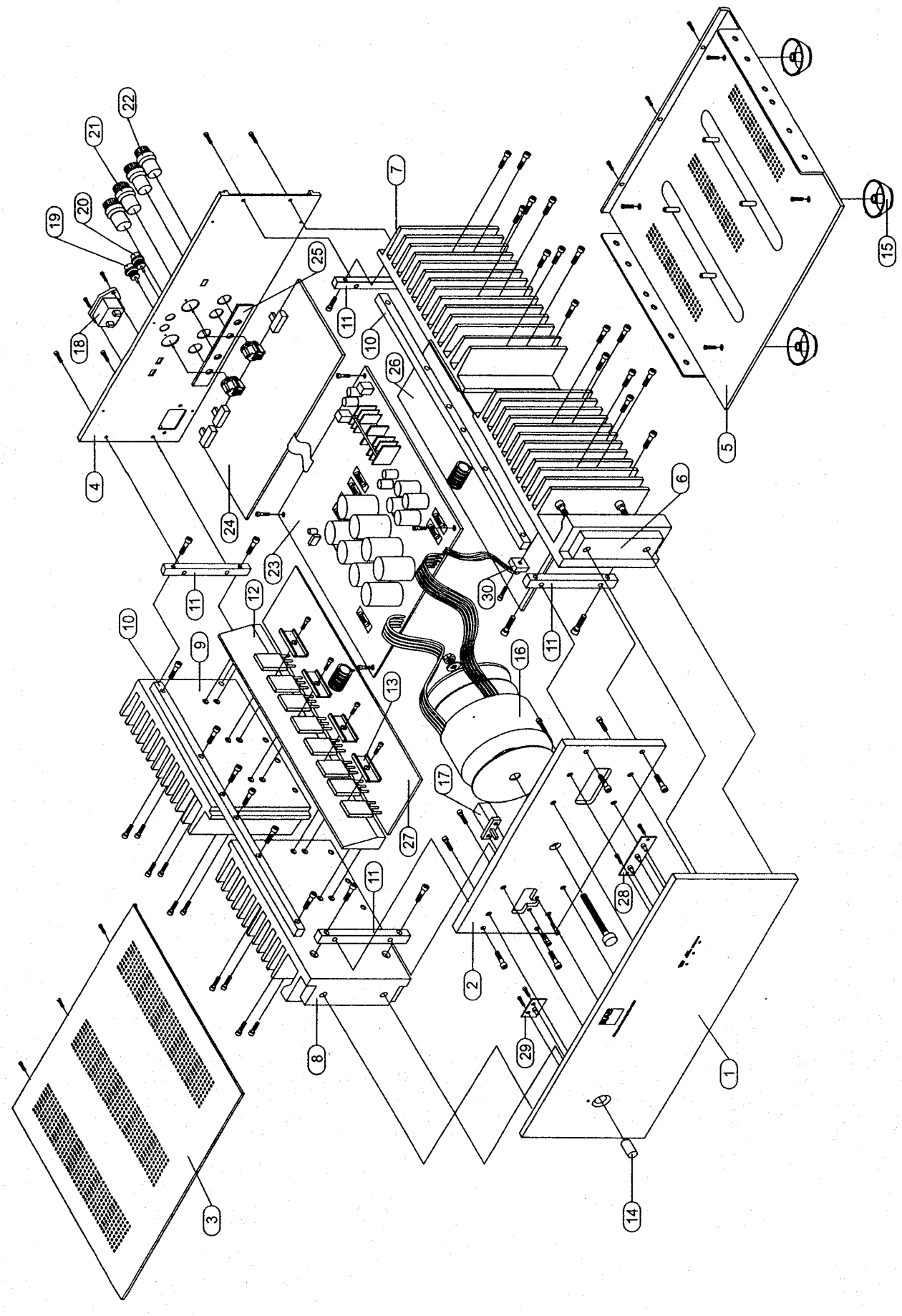
Reference No		Part Number	Description
D327-D328		4804-0030-2	DIODE IN4003
D701		4840-0970-0	BRIDGE DIODE 25A400V KBPC 2504
D702		4804-0030-2	DIODE IN4003
D703		4840-0810-0	BRIDGE DIODE 1.5A 400V
D704-D706		4837-27V0-2	DZ 1/2W 27V(26.2-27.6)
D707-D708		4840-0800-0	DZ 1/2W MTZ-J 18C
D709-D710*C		4840-1160-0	ZENER DOIDE 1W 56V 5%
LEDS			
D601-D603		3700-3538-B	BLUE LED 3MM FLAT
D604		3700-3607-R	RED LED 3MM RT3-2134HTS-B
FUSE AND FUSE HOLDER			
F501*AH	⚠	5120-0023-0	FUSE 15A 250V SLOW BLOW LBC UL/CSA
F501*C	⚠	5120-0025-0	FUSE 6.3A 250V TIME LAG HBC VDE/SEMKO
F502-F505*AH	⚠	5120-0040-0	FUSE 6.3A 250V SLOW BLOW LBC UL/CSA
F502-F505*C	⚠	5120-0038-0	FUSE 6.3A 250V FAST ACTING HBC VDE/SEMKO
F701-F702*AH	⚠	5120-0031-0	FUSE 500mA 250V SLOW BLOW LBC HIGH SURGE UL/CSA
F701-F702*C	⚠	5120-0030-0	FUSE 500mA 250V TIME LAG LBC HIGH SURGE VDE/SEMKO
FH501*AH		4132-1821-0	FUSE HOLDER
FH501C		4131-9131-0	FUSE HOLDER 6.5MM PITCH RECT
FH502-FH505		4131-9131-0	FUSE HOLDER 6.5MM PITCH RECT
FH701-FH702		4131-9131-0	FUSE HOLDER 6.5MM PITCH RECT
ICs			
IC101-IC102		3130-7350-0	IC OP-249 DUAL JFET OP AMP
IC201		3130-3830-0	IC AD712 ANALOG DEVICES
IC701		3130-3550-0	IC TA7317P
JACKS			
JK101-JK201		2113-1152-0	3-PIN FEMALE JACK
JK103		2113-1206-0	1P RCA JACK RED AU CHASSIS MOUNT
JK104		2113-1306-0	1P RCA JACK WHITE AU CHASSIS MOUNT
AC INLET			
JK502	⚠	2113-1661-0	AC INLET 15A 250V
COILS			
L301-L302		1804-0550-0	AIR COIL 1uH D15.5XL15
TRANSISORS			
Q101-Q104		4860-0770-5	TR 2SC2878 (A,B)
Q105-Q108		4852-40GR-5	TR 2SC2240GR
Q109-Q112		4851-015Y-5	TR 2SA1015-Y HFE120-240
Q301-Q302		4860-0650-5	TR 2SA970GR
Q303-Q306		4852-40GR-5	TR 2SC2240GR
Q307-Q308		4860-0650-5	TR 2SA970GR
Q309-Q310		4852-40GR-5	TR 2SC2240GR
Q311-Q312		4860-0650-5	TR 2SA970GR
Q313-Q314		4851-015Y-5	TR 2SA1015-Y HFE120-240
Q315-Q316		4860-0700-5	TR 2SC1815GR
Q317-Q318		4860-0810-5	TR 2SA1478E

Reference No		Part Number	Description
Q319-Q320		4860-0820-5	TR 2SC3788E
Q321-Q322		4860-1060-5	TR 2SC4793 100-320
Q323-Q324		4860-0700-5	TR 2SC1815GR
Q325-Q326		4860-0820-5	TR 2SC3788E
Q327-Q328		4860-0810-5	TR 2SA1478E
Q329-Q330		4860-1060-5	TR 2SC4793 100-320
Q331-Q332		4860-1050-5	TR 2SA1837 100-320
Q333-Q334		4860-1060-5	TR 2SC4793 100-320
Q335-Q336		4860-1050-5	TR 2SA1837 100-320
Q337-Q338		4860-0880-5	TR 2SD1975 S.P
Q339-Q340		4860-0890-5	TR 2SB1317 S.P
Q341-Q342		4860-0880-5	TR 2SD1975 S.P
Q343-Q344		4860-0890-5	TR 2SB1317 S.P
Q345-Q346		4860-0880-5	TR 2SD1975 S.P
Q347-Q348		4860-0890-5	TR 2SB1317 S.P
Q349-Q350		4860-0880-5	TR 2SD1975 S.P
Q351-Q352		4860-0890-5	TR 2SB1317 S.P
Q353-Q354		4860-0720-5	TR 2SC3467 E
Q355-Q356		4860-0650-5	TR 2SA970GR
Q701		4860-1060-5	TR 2SC4793 100-320
Q702		4860-1050-5	TR 2SA1837 100-320
Q703,Q705		4852-40GR-5	TR 2SC2240GR
Q704,Q706		4860-0650-5	TR 2SA970GR
Q707		4860-0700-5	TR 2SC1815GR
Q708		4852-40GR-5	TR 2SC2240GR
Q709		4860-0650-5	TR 2SA970GR
Q710-Q711		4860-0700-5	TR 2SC1815GR
Q712		4860-0740-5	TR 2SD600K (E,F)
Q713		4860-0870-5	TR 2SB631K (E,F)
RESISTORS			
R101-R104		4715-124A-2-K	RMF 1/4W 120K 1%
R105-R108		4715-152A-2-K	RMF 1/4W 1.5K 1%
R113-R116		4715-124A-2-K	RMF 1/4W 120K 1%
R117-R120		4715-102A-2-K	RMF 1/4W 1K 1%
R123-R126		4715-102A-2-K	RMF 1/4W 1K 1%
R127-R130		4715-472A-2-K	RMF 1/4W 4.7K 1%
R139-R140		4715-222A-2-K	RMF 1/4W 2.2K 1%
R141-R142		4715-223A-2-K	RMF 1/4W 22K 1%
R301-R302		4715-101A-2-K	RMF 1/4W 100R 1%
R303-R304		4715-204A-2-K	RMF 1/4W 200K 1%
R305-R306		4715-473A-2-K	RMF 1/4W 47K 1%
R307-R308*AH		4705-101J-2-K	RCF 1/4W 100R 5%
R307-R308*C	⚠	4715-101J-2-F	RFU 1/4W 100R 5%
R309-R312		4715-201A-2-K	RMF 1/4W 200R 1%
R313-R314		4715-473A-2-K	RMF 1/4W 47K 1%
R315-R316*AH		4705-101J-2-K	RCF 1/4W 100R 5%
R315-R316*C	⚠	4715-101J-2-F	RFU 1/4W 100R 5%
R317-R318		4715-204A-2-K	RMF 1/4W 200K 1%
R319-R322		4715-270A-2-K	RMF 1/4W 27R 1%
R323-R324*AH		4705-152J-2-K	RCF 1/4W 1.5K 5%
R323-R324*C	⚠	4715-152J-2-F	RFU 1/4W 1.5K 5%
R327-R328*AH		4705-152J-2-K	RCF 1/4W 1.5K 5%
R327-R328*C	⚠	4715-152J-2-F	RFU 1/4W 1.5K 5%
R331-R332*AH		4715-111A-2-K	RMF 1/4W 110R 1%
R331-R332*C	⚠	4715-111J-2-F	RFU 1/4W 110R 5%

Reference No		Part Number	Description
R333-R334*AH	⚠	4715-181J-2-P	RFP 1/4W 180R 5%
R333-R334*C	⚠	4715-181J-2-F	RFU 1/4W 180R 5%
R343-R344*AH	⚠	4715-181J-2-P	RFP 1/4W 180R 5%
R343-R344*C	⚠	4715-181J-2-F	RFU 1/4W 180R 5%
R347-R350*AH	⚠	4715-121J-2-P	RFP 1/4W 120R 5%
R347-R350*C	⚠	4715-101J-2-F	RFU 1/4W 100R 5%
R351-R352*AH	⚠	4715-681J-2-P	RFP 1/4W 680R 5%
R351-R352*C	⚠	4715-681J-2-F	RFU 1/4W 680R 5%
R353-R356	⚠	4717-121J-2-P	RFP 1/2W 120R 5%
R357-R360	⚠	4717-4R7J-2-KF	RFU 1/2W 4.7R 5%
R361-R364		471A-022K-5-N	RMF 3W 0.22R 10%
R365-R368	⚠	4717-4R7J-2-KF	RFU 1/2W 4.7R 5%
R369-R372		471A-022K-5-N	RMF 3W 0.22R 10%
R373-R376	⚠	4717-4R7J-2-KF	RFU 1/2W 4.7R 5%
R377-R380		471A-022K-5-N	RMF 3W 0.22R 10%
R381-R384	⚠	4717-4R7J-2-KF	RFU 1/2W 4.7R 5%
R385-R388		471A-022K-5-N	RMF 3W 0.22R 10%
R411-R412	⚠	4719-100J-1-P	RFP 2W 10R 5%
R419-R420		4717-123A-2-K	RMF 1/2W 12K 1%
R421-R422		4719-182A-1	RMF 2W 1.8K 1%
R425-R426	⚠	4718-3R3J-1-P	RFP 1W 3.3R 5%
R701	⚠	4717-4R7J-2-KF	RFU 1/2W 4.7R 5%
R702-R703	⚠	4718-101J-1-P	RFP 1W 100R 5%
R704-R705*AH	⚠	4718-101J-1-P	RFP 1W 100R 5%
R704-R705*C	⚠	4718-101J-1-F	RFU 1W 100R 5%
R712		4715-333A-2-K	RMF 1/4W 33K 1%
R718		4715-333A-2-K	RMF 1/4W 33K 1%
R744-R745*AH		4719-102J-1-X	RMF 2W 1K 5%
R744-R745*C	⚠	4718-102J-2-F	RFU 1W 1K 5%
RELAYS			
RL301-RL302		4500-0150-0	RELAY 48V 16A SPST
SWITCHES			
SW201		5200-3161-0-01	4PDT SLIDE SW.SK-42F28-G6TS
SW202-SW203		5200-3171-0-01	DPDT SLIDE SW.SK-22F28-G9TS
SW501*AH	⚠	5200-3441-0	POWER SW DPST UL/CSA
SW501*C	⚠	5200-3461-0	POWER SW DPST VDE/SEMKO
THERMAL SWITCHES			
TH301-TH302	⚠	8910-0090-0	THERMAL SWITCH 80C
JUMPER			
J702*AH		635N-0001-0	WJ ROLLER FORM D=0.6MM
J703*C		635N-0001-0	WJ ROLLER FORM D=0.6MM
VARIABLE RESISTORS			
VR101-VR102		4756-2236-3-06	SVR 22K H3
VR301-VR302		4756-1016-3-06	SVR 100R H6

Note:
- **The components identified by ⚠ mark are critical for risk of the fire and electrical shock. Replace only with part number specified.**
- **<*AH > : USA, Canadian model only.**
- **<*C > : European model only.**
- **Capacitors : CC - Ceramic, CE - Electrolytic, CM - Mylar, CP - Polystrere.**
- **Resistors : RMF - Metal Film, RFU - Fusible.**

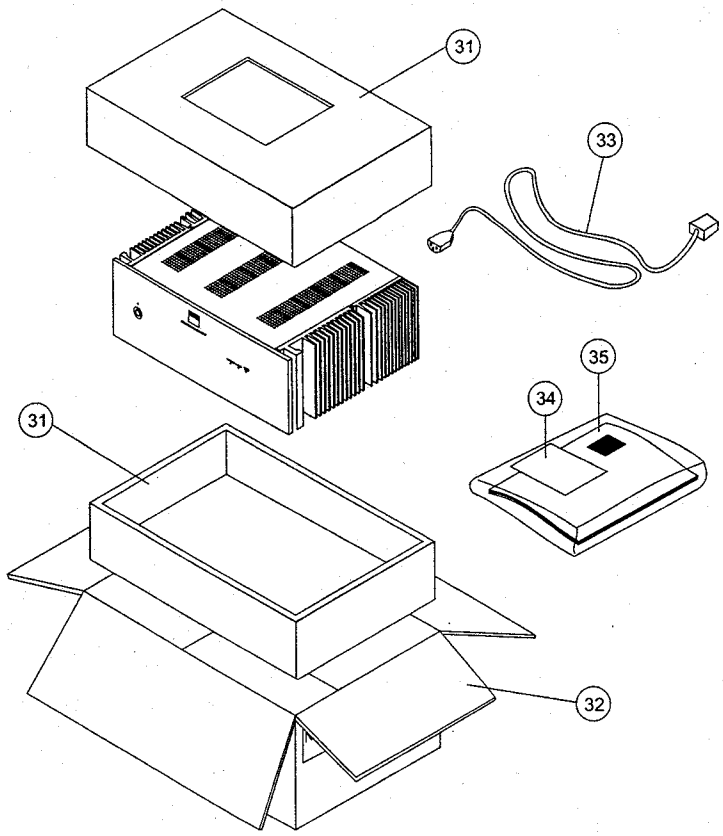
EXPLODED VIEW



EXPLODED VIEW PARTS LIST

ITEM	PART NUMBER	DESCRIPTION	QTY.
1	S200-2001-3	FASCIA	1
2	S200-2002-2	SUBFASCIA	1
3	S200-2005-2	TOP COVER	1
4*AH	S200-2004AH-2	REAR PANEL 120V	1
4*C	S200-2004C-2	REAR PANEL 230V	1
5	S200-2003-3	BASE PLATE	1
6	S200-2014-2	RIGHT FRONT HEATSINK	1
7	S200-2034-1	RIGHT REAR HEATSINK	1
8	S200-2024-2	LEFT FRONT HEATSINK	1
9	S200-2044-1	LEFT REAR HEATSINK	1
10	S200-2008-2	TOP COVER MOUNTING BAR	2
11	S200-2009-2	SUBFASCIA/REAR PANEL BAR	4
12	S200-2007-3	HEATSINK BAR	2
13	N41321671-0	TRANSISTOR CLAMP	8
14	S100-2011-3	10MM POWER BUTTON	1
15	S100-2013-2	FOOT W/ RUBBER CUSHION	4
16	TI-652252	TRANSFORMER	1
17	S200-0205	POWER SWITCH	1
18	PX0690/28	AC INLET	1
19	S300-0202	RCA JACK WHITE	1
20	S300-0201	RCA JACK RED	1
21	WBT-745 RED	SPEAKER TERMINAL RED	2
22	WBT-745 BLACK	SPEAKER TERMINAL BLACK	2
23	S200-0100	PSU PCB	1
24	S200-0110	INPUT STAGE PCB	1
25	S200-0120	SPEAKER PCB	1
26	S200-0130	RIGHT POWER STAGE PCB	1
27	S200-0140	LEFT POWER STAGE PCB	1
28	S200-0150	RIGHT LED PCB	1
29	S200-0160	LEFT LED PCB	1
30	S200-0200	BRIDGE RECTIFIER	1

PACKING DIAGRAM



ITEM	PART NUMBER	DESCRIPTION	QTY.
31	311232	POLYFOAM	1 SET
32	S200-2010-A	CARTON BOX	1
33*AH	POW4	POWER CORD NEMA 1-15 POLARIZED	1
33*C	POW2	POWER CORD CEE (7) XVII	1
34	WARR	WARRANTY CARD	1
35	S200-IM	INSTRUCTION MANUAL	1

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